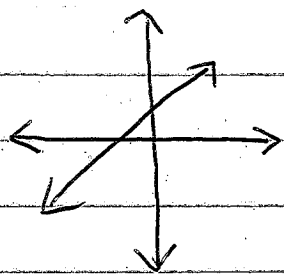
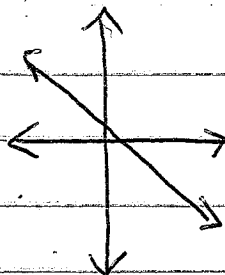


### 3.4 FIND AND USE SLOPES OF LINES



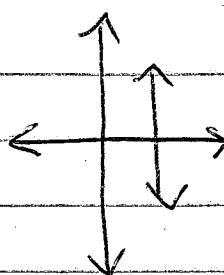
$$m > 0$$

rises



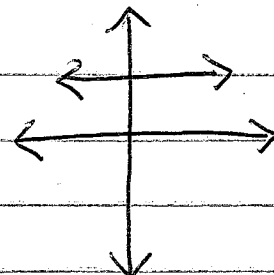
$$m < 0$$

falls



$m$  is undefined

vertical



$$m = 0$$

horizontal

### CHECKING A SOLUTION

Ex 1  $(6, -1)$

$$4x - y = 25$$

$$4(6) - (-1) = 25$$

$$24 + 1 = 25$$

$$25 = 25 \quad \boxed{\text{YES}}$$

Ex 2  $(3, 0)$

$$-x + 2y = 3$$

$$-3 + 2(0) = 3$$

$$-3 + 0 = 3$$

$$-3 \neq 3 \quad \boxed{\text{NO}}$$

Ex 3  $(-3, -5)$  FIND  $b$

$$2x + 5y = b$$

$$2(-3) + 5(-5) = b$$

$$-6 - 25 = b$$

$$\boxed{-31 = b}$$